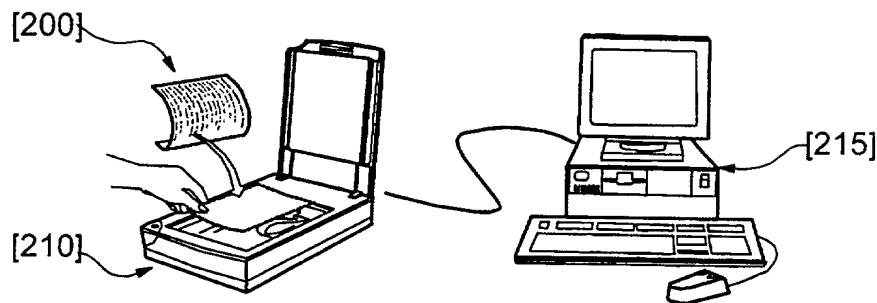


Figure 1



[230] Message Authentication Codes: A
[240] message authentication code
(MAC), also known as a data
authentication code (DAC), is a
one-way hash function with the
addition of a secret key. The
hash value is a function of both
the pre-image and the key. The
theory is exactly the same as
hash functions, except only
someone with the key can verify
the hash value. (Excerpt from
'Applied Cryptography' by Bruce
Schneier, 2nd Ed., Wiley, 1996).

[220]

[250]

[265] Instead of manually scanning documents, scanned image bitmap files consist of lines that are not yielded usefully to extract appropriate information, optical character recognition (OCR),

[260] documents can be scanned independently. These scanned files, optical character

[255]

Figure 2

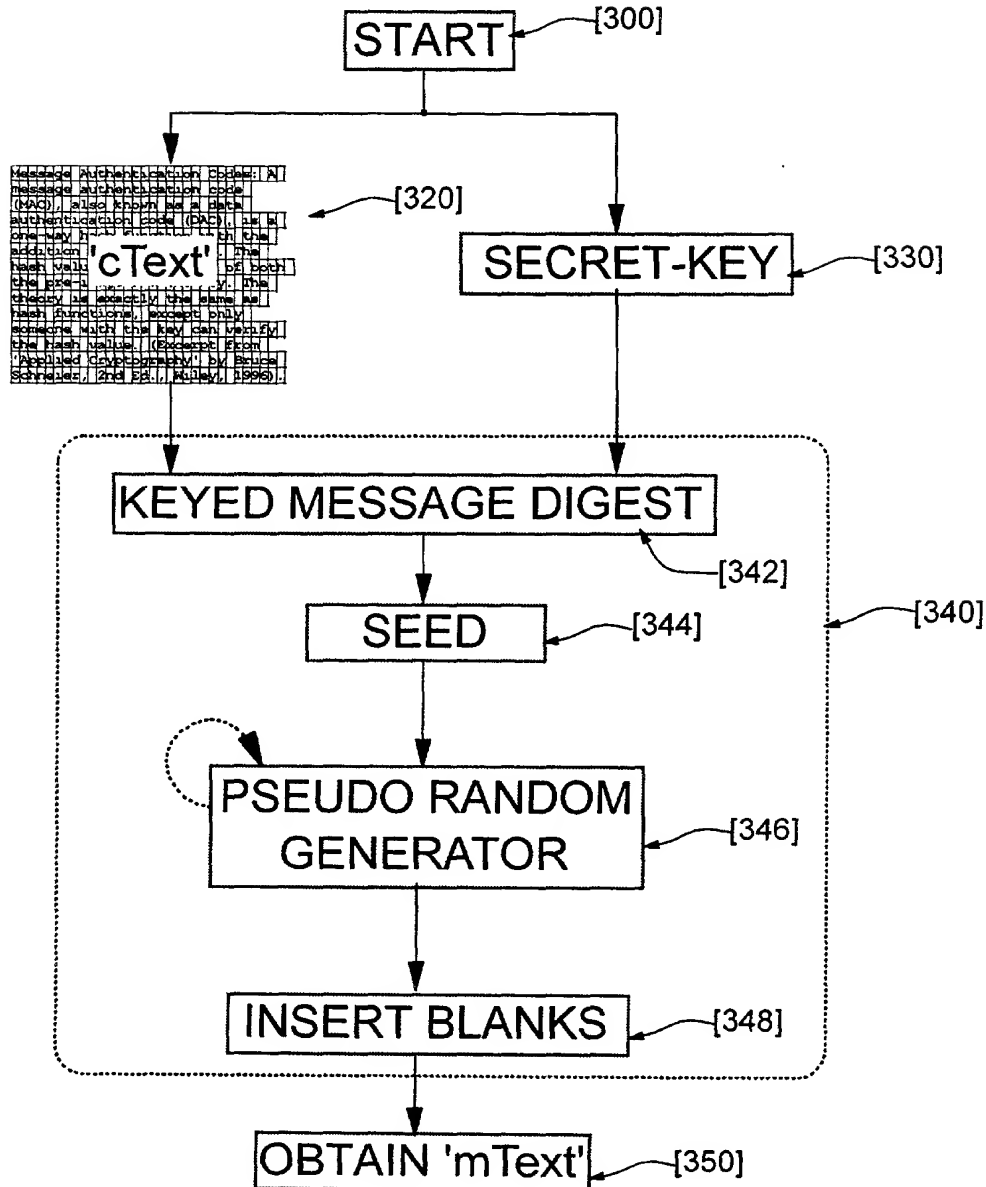


Figure 3

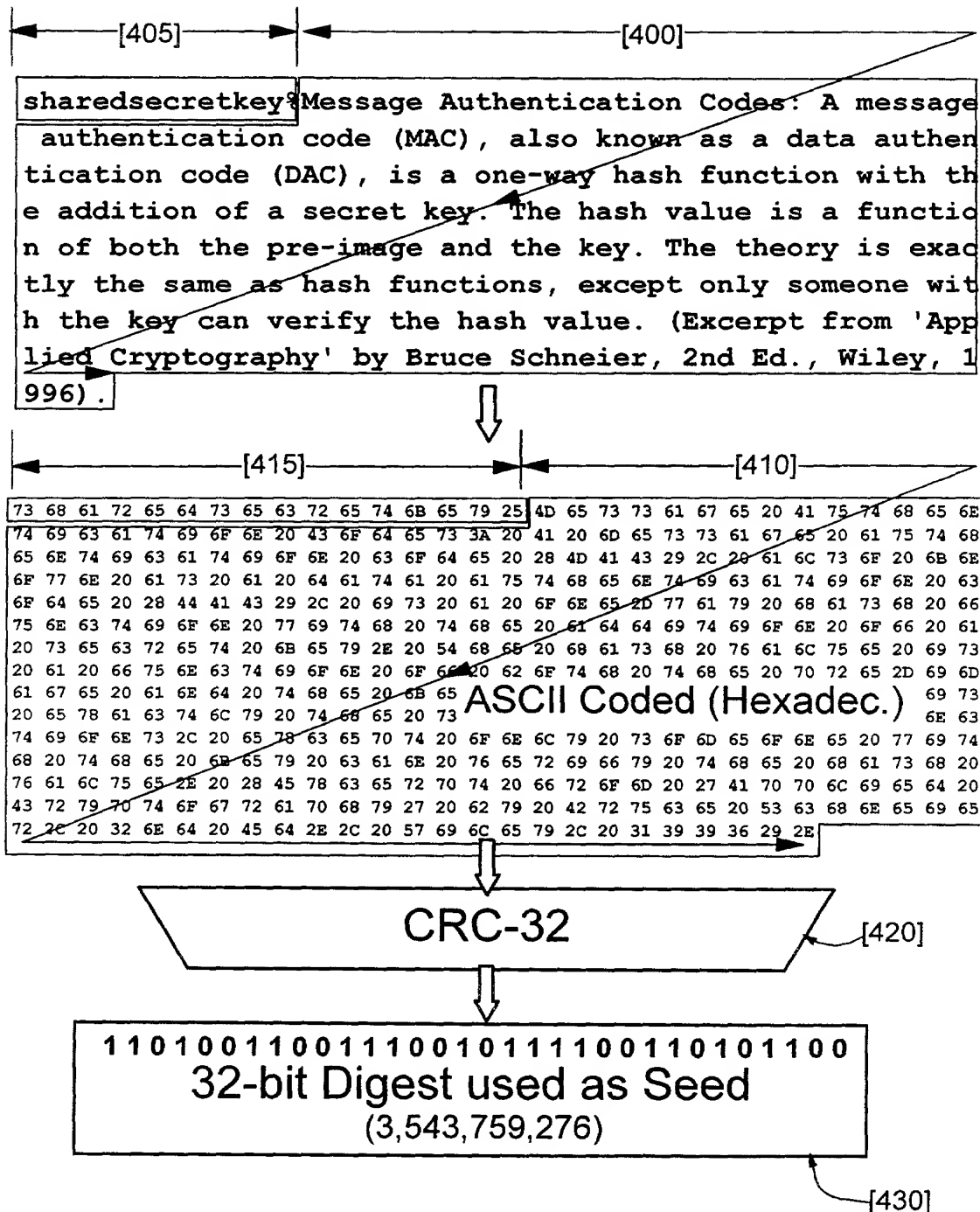


Figure 4

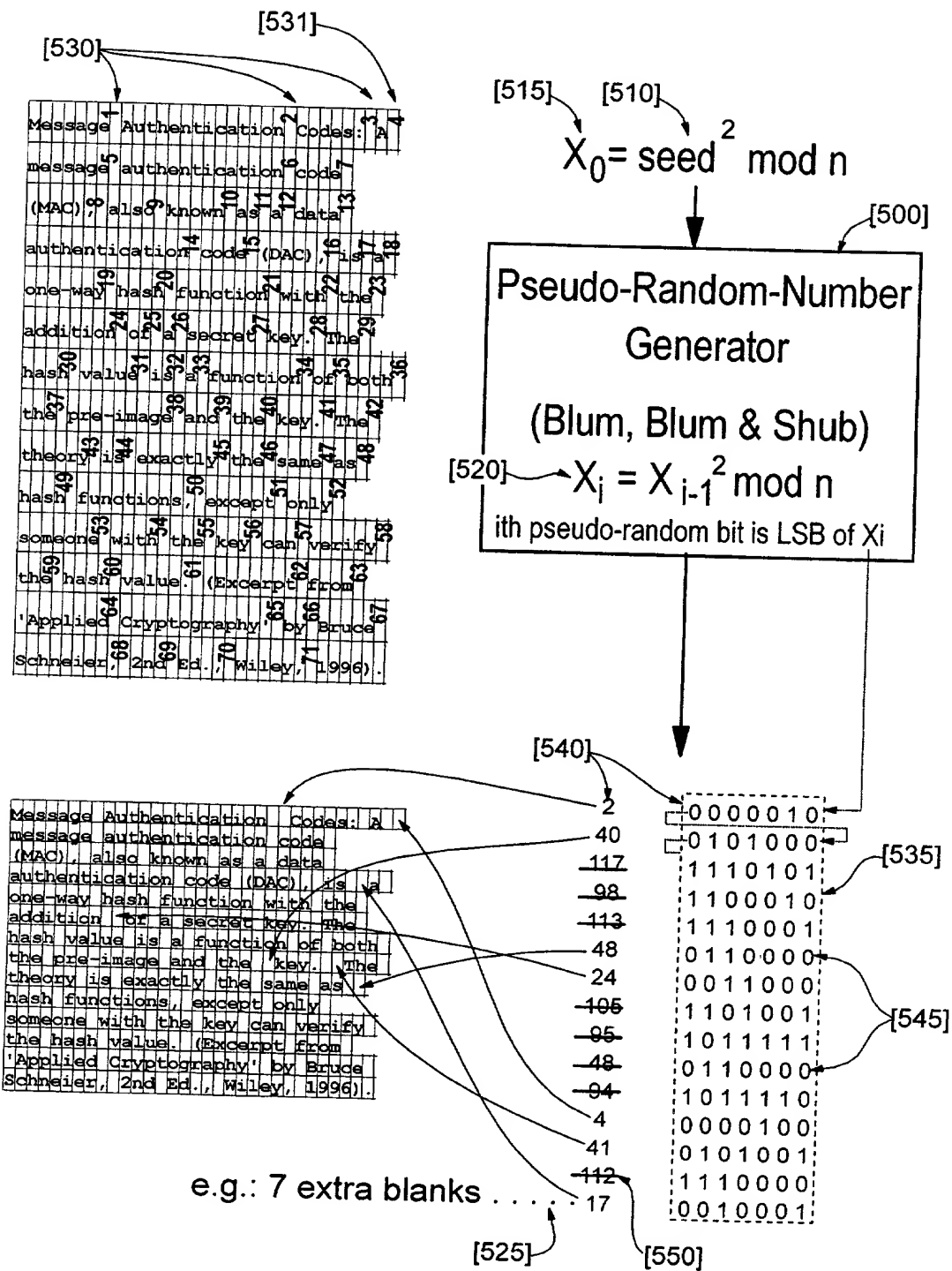


Figure 5